

**U.S. EPA/START Mercury Vapor Air Monitoring Results**  
**NICOR/Elmhurst Road Mercury Spill**  
**July 25 and 27, 2000**

Address	Location	Date	Time	Reading ( $\mu\text{g}/\text{m}^3$ )
Background	Outside (sidewalk south of house)	7/25/00	1130	0.05-0.07 <sup>a</sup>
	Center of living room breathing zone	7/25/00	1215	0.48-0.52 <sup>a</sup>
	Breathing zone near foot of adult bed in bedroom containing adult bed and baby bed		1215	0.58 <sup>a</sup>
	Breathing zone near doorway in baby's room		1215	0.61 <sup>a</sup>
	Breathing zone in corner of basement near where meter was removed		1215	0.7-0.8 <sup>a</sup>
	"Hot" spot near floor along the basement wall left of where a closet was removed		1215	3 <sup>a</sup>
	Kitchen breathing zone (all windows closed since 1348; thermostat temp. = 83°F)	7/27/00	1430	0.05-0.06 <sup>a</sup>
	Living room breathing zone		1430	0.06 <sup>a</sup>
	Baby room breathing zone		1430	0.06 <sup>a</sup>
	Master bedroom breathing zone		1430	0.06 <sup>a</sup>
	Master bedroom baby blanket		1430	0.076 <sup>a</sup>
	Basement breathing zone at bottom of stairs		1430	0.16 <sup>a</sup>
	Basement breathing zone at NW corner of portion of floor sealed with Carbolite™ epoxy		1430	0.2 <sup>a</sup>
	Basement breathing zone along south wall		1430	0.18 <sup>a</sup>
	Living room breathing zone	7/25/00	1440	0.01 <sup>a</sup>
	Breathing zone of small room in basement where meter was removed		1440	1.4-1.6 <sup>a</sup>

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	Basement recreation room		1440	0.330 <sup>a</sup>
	Near floor at closed door to small room where meter was removed	7/25/00	1440	0.60 <sup>a</sup>
	Basement ambient (breathing zone) - rec room and storage area		1905	2-3 <sup>a</sup>
	Basement - near floor at remaining portion of wall to room where meter was removed		1905	3.3 <sup>a</sup>
	Basement rec room breathing zone	7/27/00	1420	0.001-0.01 <sup>a</sup> BKG = 0.01-0.02 <sup>a</sup>
	Basement near meter area (floor in this area sealed with a Carbolite <sup>TM</sup> epoxy product)		1420	0.01-0.028 <sup>a</sup>
	Living room breathing zone		1420	0.05-0.06 <sup>a</sup>
	Kitchen breathing zone		1420	0.01-0.02 <sup>a</sup>
	Breathing zone just inside south doorway (windows open)	7/25/00	1130	0.0 <sup>a</sup>
	"		1130	0.06-0.07 <sup>a</sup>
	Breathing zone in child's room (windows open)		1130	0.06-0.07 <sup>a</sup>
	Breathing zone in living room (windows open)		1130	0.06-0.07 <sup>a</sup>
	North vent in child's room (windows open)	7/25/00	1130	0.06-0.07 <sup>a</sup>
	Basement near floor along wall where meter was removed		1705	0.8-0.9 <sup>a</sup>
	Basement, ambient		1705	0.8-0.9 <sup>a</sup>
	Basement - under visqueen covering books		1705	1.2 <sup>a</sup>

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	Kitchen breathing zone (windows closed, thermostat temp. = 82°F)	7/27/00	1350	0.18-0.22 <sup>a</sup> BKG = 0.038 <sup>a</sup>
	Living room breathing zone (windows closed, thermostat temp. = 82°F)	7/27/00	1350	0.17-0.18 <sup>a</sup>
	Child room (windows closed, thermostat temp. = 82°F)		1350	0.083 <sup>a</sup>
	Adult room breathing zone (windows closed, thermostat temp. = 82°F)		1350	0.0-0.1 <sup>a</sup>
	Basement near floor along wall where meter was removed (windows closed, thermostat temp. = 82°F)		1350	0.69 <sup>a</sup>
	Toolbox (open) in basement		1350	1.2-1.3 <sup>a</sup>
	Laundry area breathing zone (windows closed, thermostat temp. = 82°F)		1350	0.7-0.8 <sup>a</sup>
	Basement near ceiling (tiles)		1350	0.8 <sup>a</sup>
	Basement near loose hanging ceiling tile		1350	0.9 <sup>a</sup>
	Basement den		1350	0.71 <sup>a</sup>
	Garage breathing zone		1350	0.06-0.08 <sup>a</sup>
	Just inside front door (breathing zone) (windows closed)	7/25/00	1145	6 <sup>b</sup>
	Just inside front door (near floor) (windows closed)		1145	1.4 <sup>a</sup>
	Kitchen breathing zone (windows closed)		1145	1.2-1.3 <sup>a</sup>
	Hallway near floor (windows closed)		1145	1.6 <sup>a</sup>

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	Living room breathing zone (windows closed)		1145	1.6 <sup>a</sup>
	Basement near location where meter was removed (near floor) (windows closed)	7/25/00	1145	1.8 <sup>a</sup>
	"Hot" spot along north basement wall near floor (windows closed)		1145	6 <sup>a</sup>
	Breathing zone in south room of basement (windows closed)		1145	1.6-1.8 <sup>a</sup>
	Kitchen breathing zone (windows closed, air conditioning off, thermostat temp. = 83°F)	7/27/00	1455	0.44 <sup>a</sup>
	Hallway near floor at vent		1455	0.19 <sup>a</sup>
	Southeast bedroom at breathing zone		1455	0.16 <sup>a</sup>
	Boy's bedroom at breathing zone		1455	0.16 <sup>a</sup>
	Southwest bedroom breathing zone		1455	0.14 <sup>a</sup>
	Living room breathing zone		1455	0.28 <sup>a</sup>
	North end of living room breathing zone		1455	0.31 <sup>a</sup>
	Kitchen near living room		1455	0.35-0.36 <sup>a</sup>
	Basement breathing zone at bottom of stairs		1455	0.92 <sup>a</sup>
	Basement breathing zone in corner where meter was removed		1455	1.1 <sup>a</sup>
	Basement south room breathing zone		1455	0.84 <sup>a</sup>
	Basement southwest room breathing zone		1455	0.84 <sup>a</sup>
	Basement north section breathing zone		1455	1.0 <sup>a</sup>
	Basement - crack at bottom of stairs		1455	1.3 <sup>a</sup>

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	Immediately inside side door (breathing zone)	7/25/00	1545	Background <sup>a</sup>
	Breathing zone in basement near where meter was removed	7/25/00	1545	Background <sup>a</sup>
	1 foot from open storage door on left side	7/27/00	1440	6.0 <sup>a</sup>
	2 feet inside back door, 2 feet up		1440	> 26 <sup>a,c</sup>

<sup>a</sup> Reading taken using Lumex™ Mercury Vapor Instrument.

<sup>b</sup> Reading taken using the Jerome™ Model 431-X Mercury Vapor Analyzer.

<sup>c</sup> The Lumex™ Mercury Vapor Instrument contained the low concentration cell which cannot read beyond 26  $\mu\text{g}/\text{m}^3$ . Actual concentration is higher than the reading of 26  $\mu\text{g}/\text{m}^3$ .

**U.S. EPA/START Mercury Vapor Air Monitoring Results**  
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**July 31, 2000**

<b>Address</b>	<b>Location</b>	<b>Date</b>	<b>Time</b>	<b>Reading<sup>a</sup> (<math>\mu\text{g}/\text{m}^3</math>)</b>
Background	Outside (sidewalk south of house)	7/31/00	1035	0.03
	Living room breathing zone (house sealed since 1600 hours yesterday; thermostat temp. = 87°F)	7/31/00	1035	0.28 <sup>4</sup>
	Hallway breathing zone		1035	0.30
	Hallway near floor		1035	0.35
	Adult room breathing zone		1035	0.40
	Adult room near floor		1035	0.33
	Child room breathing zone		1035	0.33
	Child room near floor		1035	0.35
	Bathroom near floor		1035	0.36
	Kitchen breathing zone		1035	0.38
	Kitchen floor mat		1035	0.50
	Kitchen floor (no mat)		1035	0.40
	Basement near floor at bottom of stairs		1035	0.48
	Basement breathing zone at bottom of stairs		1035	0.40
	Basement floor "hot" spot along wall near where meter was removed (Floor painted with Carboline®)		1035	0.38
	Basement breathing zone near location where meter was removed		1035	0.40
	Basement near floor south of area painted with Carboline®		1035	0.46
	Basement - Joint in wood paneling on west wall approximately 4.5 feet from the floor and 2 feet to the left of the unfinished concrete wall where meter was removed		1035	>0.60

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	Basement near center of the ceiling (ceiling tile already removed)	7/31/00	1035	0.48
	Basement near furnace access panel to filter		1035	0.55
	Basement breathing zone near washer and dryer		1035	0.47
	Basement near de-humidifier fan (running)		1035	0.70
	Center of kitchen breathing zone		1105	0.31
	Hallway floor near vent		1105	0.39
	Master bedroom breathing zone		1105	0.43
	Boy's room breathing zone		1105	0.38
	North end of living room breathing zone		1105	0.33
	Basement breathing zone at bottom of stairs		1105	0.74
	Basement - crack at bottom of stairs		1105	0.48
	Basement northwest corner breathing zone		1105	0.80
	Basement northwest corner near wall, 4.5 feet from floor		1105	0.82
	Basement west concrete wall 3 feet from floor		1105	0.86
	Basement west brick wall 5 feet from floor		1105	0.89
	Basement - breathing zone in south room		1105	1.0
	Basement - inside clothes washer in south room		1105	10.0
	Basement - inside clothes dryer in south room		1105	1.0

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	Basement - ceiling tile in south room near washer	7/31/00	1105	1.2
Background		7/31/00	1225	0.0
	Living room breathing zone	7/31/00	1225	3.0
	Dining room breathing zone		1225	3.0
	Hallway breathing zone		1225	4.0
	Southwest bedroom breathing zone		1225	5.4
	Southwest bedroom closet		1225	6.0
	Northwest bedroom breathing zone		1225	5.0
	Northwest bedroom closet floor		1225	3.2
	Northwest bedroom bag of toys		1225	6.0
	Upstairs hallway breathing zone		1225	4.0
	Upstairs office breathing zone		1225	5.0
	Upstairs office near wall in southeast corner, 4 feet from floor		1225	5.2
	Upstairs master bedroom breathing zone		1225	5.3
	Clothes in master bedroom closet		1225	5.5
	Dresser drawers in master bedroom		1225	5.2-5.4
Background	Near garage outside of	7/31/00	1225	0.06
	Kitchen breathing zone	7/31/00	1245	0.18
	Kitchen floor		1245	0.14
	Living room breathing zone		1245	0.18
	Basement family room breathing zone		1245	0.15

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Address	Location	Date	Time	Reading* ( $\mu\text{g}/\text{m}^3$ )
	Basement family room - floor in front of chair	7/31/00	1245	0.15
	Basement family room seat and arms of chair		1245	0.18
	Basement - inside clothes washer		1245	0.30
	Second floor southeast (children) bedroom breathing zone		1245	0.11
	Second floor southeast (children) bedroom left drawer under bed		1245	0.16
	Second floor southeast (children) bedroom right drawer under bed		1245	0.15
	Second floor southeast (children) bedroom - at floor near bed		1245	0.45
	Second floor southeast (children) bedroom between sheets of bottom bunk bed near foot of bed		1245	0.62
	Second floor southeast (children) bedroom between sheets of top bunk bed near foot of bed		1245	0.45
	Second floor southwest bedroom breathing zone		1245	0.15
	Second floor southwest bedroom between sheets of bed near foot of bed		1245	0.50
	Second floor southwest bedroom - closet floor		1245	0.16
	Master bedroom breathing zone		1245	0.10
	Master bedroom closet		1245	0.12
	Master bedroom between sheets of bed near foot of bed		1245	0.15
	Upstairs office breathing zone		1245	0.07

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Background	Outside	7/31/00	1315	0.06
	Living room breathing zone	7/31/00	1315	0.08
	Kitchen breathing zone		1315	0.07
	Living room breathing zone		1315	0.10
	Back hallway breathing zone		1315	0.09
	Back hallway floor		1315	0.08
	Back hallway closet		1315	0.10
	Master bedroom breathing zone		1315	0.10
	Master bedroom closet		1315	0.07
	Office breathing zone		1315	0.10
	Brown shoes		1315	0.12
	Gym shoes		1315	0.12
	Office - right closet		1315	0.12
	Office - left closet		1315	0.09
	Office - second dresser drawer w/clothes		1315	0.20
	Basement breathing zone		1315	0.05
	Basement - inside clothes washer		1315	0.07
Background	Outside	7/31/00	1330	0.06
	Garage breathing zone	7/31/00	1330	0.04
	Garage - middle of floor		1330	0.04
	Garage - floor near inside door		1330	0.05
	Room adjacent to garage breathing zone		1330	0.05

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	Shower in bathroom nearest garage	7/31/00	1330	0.12
	Gym shoes in shower		1330	0.52
	Brown shoes in shower		1330	0.40
	Laundry room breathing zone		1330	0.07
	Family room breathing zone		1330	0.10
	Family room floor near sofa		1330	0.13
	Master bedroom breathing zone		1330	0.07
	Master bedroom between sheets of bed near foot of bed		1330	0.35
	Master bedroom closet floor		1330	0.11
	Treadmill surface		1330	0.07
Background	Outside on	7/31/00	1340	0.0-0.01
	Living room breathing zone	7/31/00	1340	0.06
	Near back door at floor		1340	0.05
	Underwear basket		1340	0.13
	Shoes		1340	0.20
	Upstairs landing breathing zone		1340	0.09
	South bedroom breathing zone		1340	0.15
	North bedroom breathing zone		1340	0.10
	North bedroom near floor		1340	0.10
	North bedroom - inside drawers of cabinet		1340	0.11
	North bedroom - animal T-shirt		1340	0.40
	North bedroom - children's clothes hamper		1340	0.20

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	"Hot" spot on kitchen counter (before wiping with household cleaner)	7/31/00	1340	0.35
	"Hot" spot on kitchen counter (after wiping with household cleaner)		1340	0.18

\* All readings taken using Lumex® RA-915+ Multifunctional Mercury Analyzer.